

The Energy Venture Investment *Summit*



THURSDAY, FEBRUARY 17
10:05 AM (MT)

ESAL: ENGINEERED SALINITY



HAYNES BOONE





Powering the Energy Transition of Tomorrow with Green Technology



Our vision is to provide green, sustainable and responsible oil as a transition to the energy of tomorrow through innovative technology

Problem

Current technologies have only produced ~30% of available oil

The industries plan is to leave behind the remaining 70%

Solution – Develop technology to increase recovery by 15% equal to 1 Trillion barrels from existing fields



OIL FIELD OF THE FUTURE

“No more business as usual”

- Bridging technology between fossil fuel and renewable energy
- Green oil – getting the most oil out of old fields
- No drilling or need for chemicals
- Responsible use of water
- Inclusion of alternative energy sources (wind, geothermal, solar, etc.) to power field equipment
- Improve air quality
- Lowering price at the pump
- Provides sustainable job base



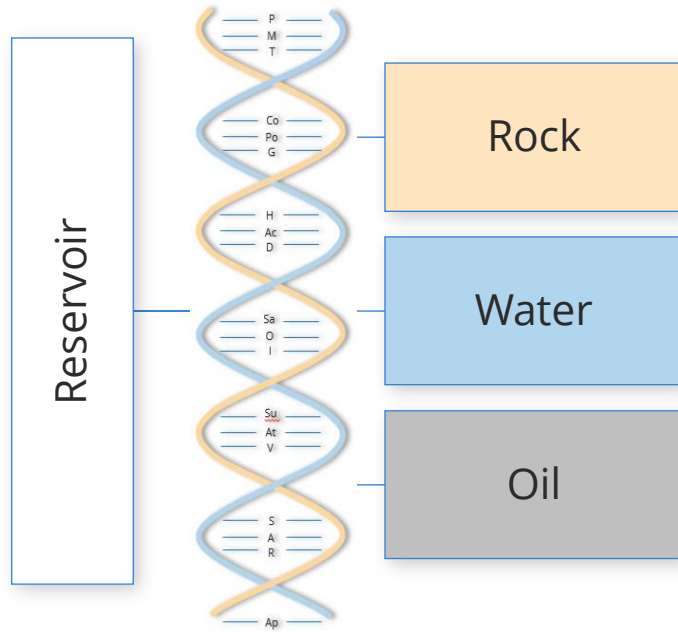
Environmental, Social and Governance through RightWater®

Help companies achieve their ESG goals:

- Avoid use of fresh water
- Recycling water from oil production and reusing while increasing oil recovery for sustainable energy
- Repurposing old fields and wells and recovering the stranded oil left behind using new technologies



Complex Reservoir Genetics



Each oil reservoir contains a unique complex genetic makeup of rock, water, and oil

ESal is focused on the previously undeveloped water and oil genetics in each reservoir

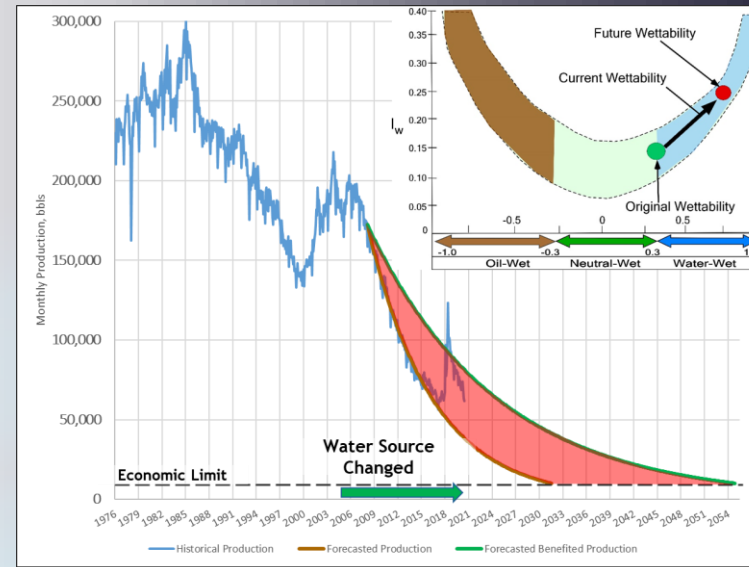
Each reservoir's key characteristics are changed to increase recovery



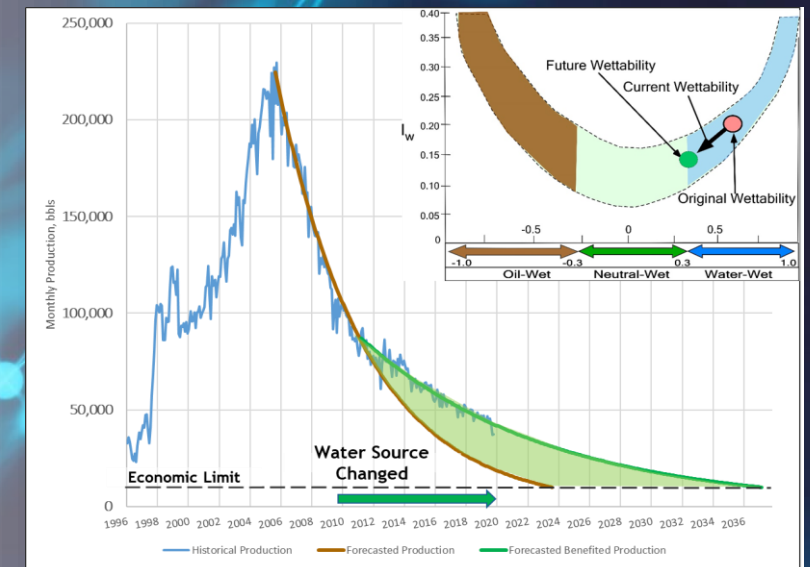
Using the Wrong and Right Water

Net Effect

- Lost **4,100,000** barrels to date
- Lost **10,300,000** barrels total
- Lost **\$267 million** dollars in profit
- Reduced property values by **\$80 million**



Damaged Wettability



Improved Wettability

Solving the Limitations of the Industry

Current Oil Recovery Techniques

Expensive
(\$10-80 per barrel)

Inconsistent and Low
Performance

Extensive Changes to
Normal Operations

Drilling required to find
new oil

RightWater®

Cheap
(<\$4 per barrel)

Predictive Testing and
Confident Results

Minimal to No Changes
to Operations

Finding new oil in old
fields

Environmental
Sustainable
Responsible

Customized
Solutions

Unlocking
carbon neutral
barrels

Digital Transformation of ESal[®]

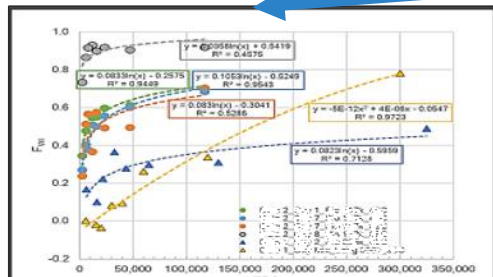
Engineered Salinity – ESal[®] takes our proven RightWater[®] technology to the next level by revealing hidden oil worldwide

ESal Process and Solutions

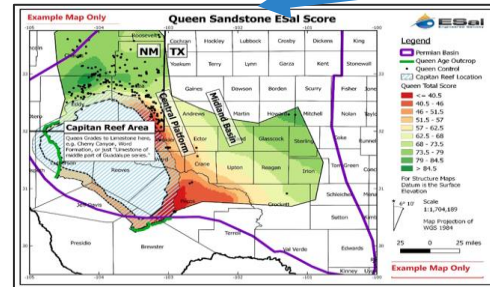
Open-Source Data

AI / Machine Learning

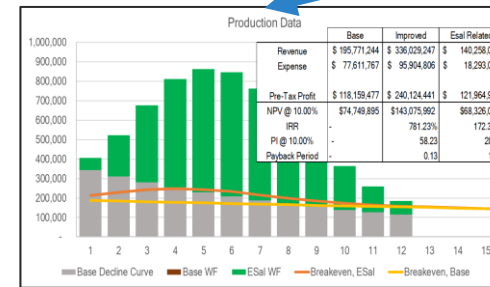
ESal Intelligence Software – EIS[™]



Field DNA Decoding



Property Screening



Economic and Financial Analysis



Applicable Worldwide

Carbon Storage Optimization

Modify and improve wettability at storage sites

Determine optimal wettability for maximum CO₂ storage capacity by up to 50%

Reduce Area of Review (AOR) up to 60%

Increase safety with seal enhancement by:

- Creating a secondary seal
- Limit leakage rates
- Provide continuous monitoring



Where We Are

Projects worked in:

- **Montana**
- **New Mexico**
- **Texas**
- **Wyoming**
- **Kentucky**
- **Gulf of Mexico**

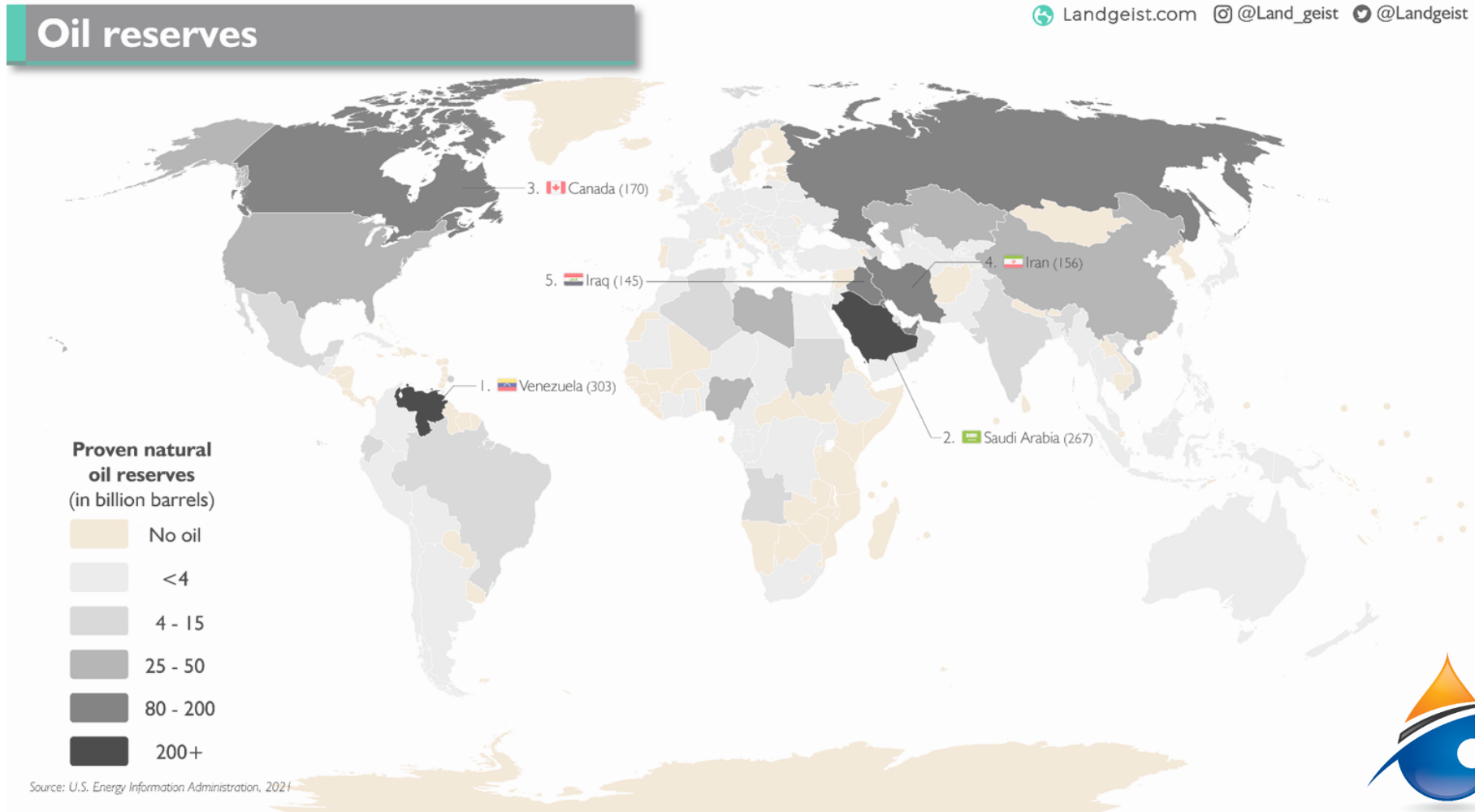
Working relationships developed in:

- **India**
- **Malaysia**

Initiated discussions in:

- **China**
- **Canada**
- **Argentina**
- **Saudi Arabia**

Revealing over 1 trillion barrels of hidden oil worldwide



Questions?

Esalinity.com